

M 5.8, 33 km WNW of Porgera, Papua New Guinea

Origin Time: 2023-09-05 15:03:17 UTC (Wed 01:03:17 local)
Location: 5.3239° S 142.8832° E Depth: 53.6 km

Created: 1 day, 0 hours after earthquake

PAGER
Version 5

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

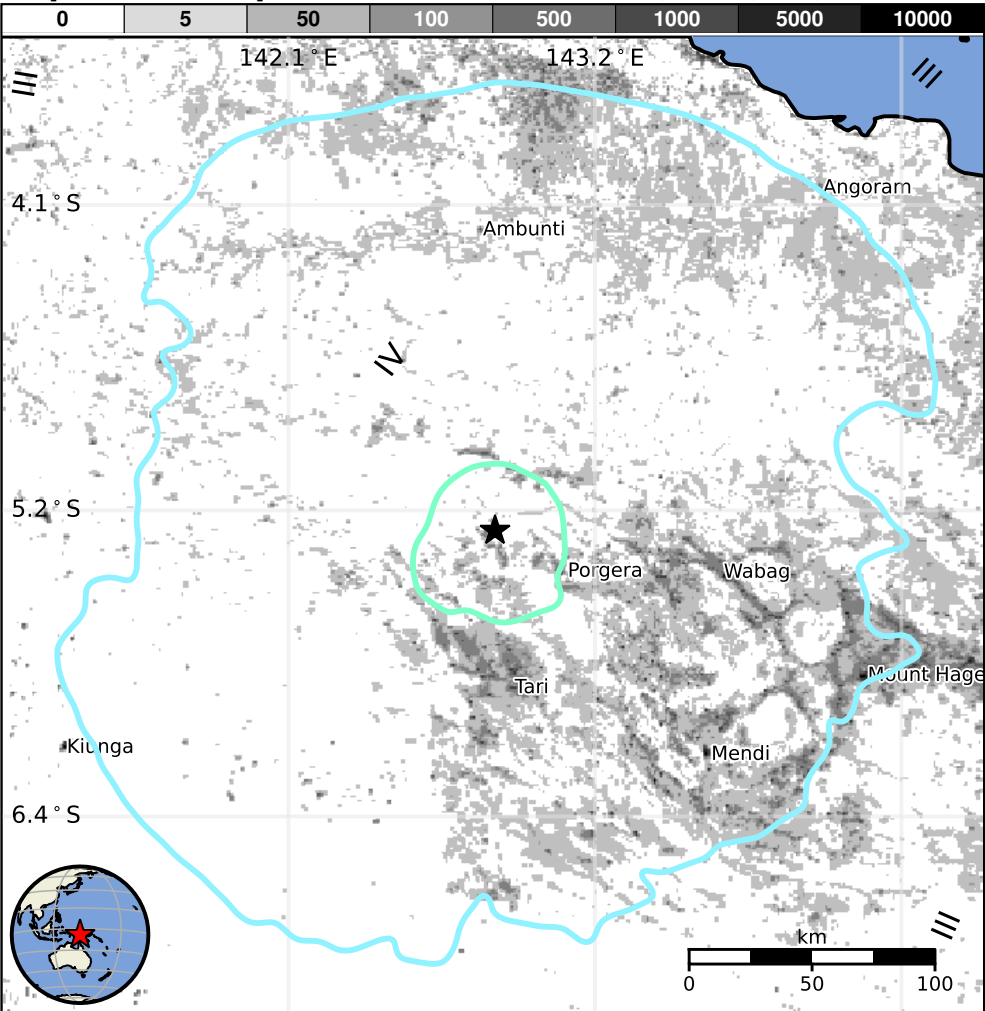


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	697k*	1,853k	69k	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1993-10-16	381	6.3	VII(75k)	3
2002-01-10	234	6.7	IX(3k)	1
1976-06-25	320	7.1	IX(18k)	422

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Porgera	2k
IV	Tari	8k
IV	Wabag	4k
IV	Ambunti	2k
IV	Mendi	26k
IV	Rauna	<1k
IV	Mount Hagen	34k
IV	Ialibu	7k
IV	Angoram	2k
III	Kiunga	12k
III	Wewak	18k

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.
<https://earthquake.usgs.gov/earthquakes/eventpage/us7000ktef#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000ktef